

FIG. 1

- 102 RECEPTION WIRELESS PROCESSING SECTION
- 103 GI REMOVING SECTIONS
- 104 FFT SECTION
- 5 105 CONTROL INFORMATION EXTRACTION SECTION
- 106 DEMODULATING SECTION
- 107 DECODING SECTION
- 126 TRANSMISSION WIRELESS PROCESSING SECTION
- 108 USER DATA EXTRACTION SECTION
- 10 109 DEMODULATING SECTION
- 110 RECEPTION HARQ SECTION
- 111 DECODING SECTION
- 125 GI INSERTION SECTION
- 112 PILOT SIGNAL EXTRACTION SECTION
- 15 113-1~113-N RECEPTION QUALITY MEASURING SECTIONS
- 127 SC SELECTING SECTION
- 124 IFFT SECTION
- 123 S/P CONVERTER
- 122 MULTIPLEXER
- 20 116 MODULATING SECTION
- 115 ENCODING SECTION
- 114 CQI GENERATING SECTION
- 118 MODULATING SECTION
- 117 ENCODING SECTION
- 25 121 MODULATING SECTION
- 120 ENCODING SECTION
- 119 ACK/NACK GENERATING SECTION

CONTROL INFORMATION

USER DATA

FIG. 2

- 5 202 RECEPTION WIRELESS PROCESSING SECTION
- 203 GI REMOVAL SECTION
- 204 FFT SECTION
- 205 CONTROL INFORMATION EXTRACTION SECTION 205
- 206 DEMODULATING SECTION
- 10 207 DECODING SECTION
- 208 CONTROL SECTION
- 209 ENCODING SECTION
- 210 TRANSMITTED SIGNAL HARQ SECTION
- 211 MODULATING SECTION
- 15 212 ENCODING SECTION
- 213 MODULATING SECTION
- 214 MULTIPLEXER
- 215 SUB-CARRIER ALLOCATION SECTION
- 216 S/P CONVERTER
- 20 217 IFFT SECTION
- 218 GI INSERTION SECTION
- 219 TRANSMISSION WIRELESS PROCESSING SECTION
- 220 CONTROL DATA TRANSMISSION PROCESSING SECTION
- CQI QUANTITY INFORMATION
- 25 CONTROL DATA
- TRANSMISSION DATA

FIG.3

FREQUENCY

FIG.4

5 6 BITS, 5 BITS, 1 BIT

SC NUMBER INFORMATION 11, CQI FOR SC NUMBER INFORMATION

11

CONTROL INFORMATION

10 FIG.5

1 BIT, 11 BITS . . .

CQI FOR SC NUMBER 11, . . .

BIT 1, BIT 10, BIT 21 . . .

CONTROL INFORMATION

15

FIG.6 (FIG.1 参照)

601 THRESHOLD VALUE DETERMINING CIRCUIT

FIG. 7 (FIG.1 参照)

20 701 THRESHOLD VALUE DETERMINING SECTION

702 USED SUB-CARRIER SELECTING SECTION

703 SPREADING SECTION

FIG. 8 (FIG.2 参照)

25 801 DE-SPREADING SECTION

802 SUB-CARRIER DETERMINING SECTION

FIG.9

5 BITS, 1 BIT

CQI FOR SC(b)

ACK/NACK SIGNAL

5 CONTROL INFORMATION

FIG.10 (FIG.1 参照)

FIG.11 (FIG.2 参照)

10 FIG.12 (FIG.4 参照)

FIG.13

64 BITS, 1 BIT

1 BIT, 2 BITS, . . .

CONTROL INFORMATION

15

FIG.14 (FIG.1 参照)

1401 THRESHOLD VALUE DETERMINING SECTION

1402 CQI SPREADING CODE GENERATING SECTION

1403 USED SUB-CARRIER SELECTING SECTION

20 1404 SPREADING SECTION

FIG.15 (FIG.2 参照)

1501 DE-SPREADING SECTION

1502 DETERMINING SECTION